```
LLL               IIIIIIIII  BBBBBBBBBBBB  RRRRRRRRRRR      TTTTTTTTTTTTTTT  LLL
LLL               IIIIIIIII  BBBBBBBBBBBB  RRRRRRRRRRR      TTTTTTTTTTTTTTT  LLL
LLL               IIIIIIIII  BBBBBBBBBBBB  RRRRRRRRRRR      TTTTTTTTTTTTTTT  LLL
LLL                  III     BBB      BBB  RRR      RRR          TTT         LLL
LLL                  III     BBB      BBB  RRR      RRR          TTT         LLL
LLL                  III     BBB      BBB  RRR      RRR          TTT         LLL
LLL                  III     BBB      BBB  RRR      RRR          TTT         LLL
LLL                  III     BBB      BBB  RRR      RRR          TTT         LLL
LLL                  III     BBBBBBBBBBBB  RRRRRRRRRRR          TTT         LLL
LLL                  III     BBBBBBBBBBBB  RRRRRRRRRRR          TTT         LLL
LLL                  III     BBB      BBB  RRR   RRR            TTT         LLL
LLL                  III     BBB      BBB  RRR   RRR            TTT         LLL
LLL                  III     BBB      BBB  RRR      RRR          TTT         LLL
LLL                  III     BBB      BBB  RRR      RRR          TTT         LLL
LLL                  III     BBB      BBB  RRR      RRR          TTT         LLL
LLLLLLLLLLLLLLL    IIIIIIIII  BBBBBBBBBBBB  RRR      RRR          TTT         LLLLLLLLLLLLLLL
LLLLLLLLLLLLLLL    IIIIIIIII  BBBBBBBBBBBB  RRR      RRR          TTT         LLLLLLLLLLLLLLL
LLLLLLLLLLLLLLL    IIIIIIIII  BBBBBBBBBBBB  RRR      RRR          TTT         LLLLLLLLLLLLLLL
```

```
LL          IIIIII   BBBBBBBB           IIIIII   NN     NN  TTTTTTTTTT   000000    VV        VV  EEEEEEEEEE
LL          IIIIII   BBBBBBBB           IIIIII   NN     NN  TTTTTTTTTT   000000    VV        VV  EEEEEEEEEE
LL            II     BB      BB           II     NN     NN      TT       00    00   VV      VV   EE
LL            II     BB      BB           II     NN     NN      TT       00    00   VV      VV   EE
LL            II     BB      BB           II     NNNN   NN      TT       00    00   VV      VV   EE
LL            II     BB      BB           II     NNNN   NN      TT       00    00   VV      VV   EE
LL            II     BBBBBBBB             II     NN  NN NN      TT       00    00   VV      VV   EEEEEEEE
LL            II     BBBBBBBB             II     NN  NN NN      TT       00    00   VV      VV   EEEEEEEE
LL            II     BB      BB           II     NN   NNNN      TT       00    00   VV      VV   EE
LL            II     BB      BB           II     NN     NN      TT       00    00    VV    VV    EE
LL            II     BB      BB           II     NN     NN      TT       00    00    VV    VV    EE
LL            II     BB      BB           II     NN     NN      TT       00    00     VV  VV     EE            ....
LLLLLLLLLL   IIIIII  BBBBBBBB           IIIIII   NN     NN      TT       000000       VV        EEEEEEEEEE     ....
LLLLLLLLLL   IIIIII  BBBBBBBB           IIIIII   NN     NN      TT       000000       VV        EEEEEEEEEE     ....

LL          IIIIII   SSSSSSSS
LL          IIIIII   SSSSSSSS
LL            II     SS
LL            II     SS
LL            II     SS
LL            II       SSSSSS
LL            II       SSSSSS
LL            II             SS
LL            II             SS
LL            II             SS
LLLLLLLLLL   IIIIII  SSSSSSSS
LLLLLLLLLL   IIIIII  SSSSSSSS
```

```
   1    0001   0 MODULE LIB$INT_OVER (%TITLE'Enable/disable integer overflow traps'
   2    0002   0             IDENT = '1-002' ! file: LIBINTOVE.B32  Edit: SBL1002
   3    0003   0             ) =
   4    0004   1 BEGIN
   5    0005   1
   6    0006   1 !
   7    0007   1 !****************************************************************
   8    0008   1 !*                                                              *
   9    0009   1 !*   COPYRIGHT (c) 1978, 1980, 1982, 1984 BY                    *
  10    0010   1 !*   DIGITAL EQUIPMENT CORPORATION, MAYNARD, MASSACHUSETTS.     *
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  19    0019   1 !*                                                              *
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  23    0023   1 !*                                                              *
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  25    0025   1 !*   SOFTWARE ON EQUIPMENT WHICH IS NOT SUPPLIED BY DIGITAL.    *
  26    0026   1 !*                                                              *
  27    0027   1 !*                                                              *
  28    0028   1 !****************************************************************
  29    0029   1 !
  30    0030   1
  31    0031   1 !++
  32    0032   1 ! FACILITY:     Utility Library
  33    0033   1 !
  34    0034   1 ! ABSTRACT:
  35    0035   1 !
  36    0036   1 !       LIB$INT_OVER enables or disables integer overflow
  37    0037   1 !       for the calling procedure activation.  The previous setting
  38    0038   1 !       of the enable is returned as a value.
  39    0039   1 !
  40    0040   1 ! ENVIRONMENT: User mode, re-entrant, AST level or not or mixed.
  41    0041   1 !
  42    0042   1 ! AUTHOR:       Thomas N. Hastings     CREATION DATE: 8-Oct-77
  43    0043   1 !
  44    0044   1 ! MODIFIED BY:
  45    0045   1 !
  46    0046   1 !       Thomas N. Hastings, 8-Oct-77: VERSION 0
  47    0047   1 ! 01    -       original
  48    0048   1 ! 0-2   - Declare PSECTs.  TNH 19-Dec-77
  49    0049   1 ! 0-03  - Change to STARLET library.  DGP 20-Apr-78
  50    0050   1 ! 0-04  - Set proper stack frame.  TNH 21-Apr-78
  51    0051   1 ! 0-05  - Change REQUIRE files for VAX system build.  DGP 28-Apr-78
  52    0052   1 ! 0-06  - Change STARLET to RTLSTARLE to avoid conflicts.  DGP 1-May-78
  53    0053   1 ! 0-07  - Change the file name to LIBINTOVE.B32, and change the name
  54    0054   1 !          of the REQUIRE file similarly.  JBS 14-NOV-78
  55    0055   1 ! 1-001 - Update version number and copyright notice.  JBS 16-NOV-78
  56    0056   1 ! 1-002 - Use prologue file.  SBL 24-June-1983
  57    0057   1 !--
```

```
:   59        0058  1 !
:   60        0059  1 ! PROLOGUE FILE:
:   61        0060  1 !
:   62        0061  1
:   63        0062  1 REQUIRE 'RTLIN:LIBPROLOG';             ! LIB$ definitions
:   64        0133  1
:   65        0134  1 !
:   66        0135  1 ! TABLE OF CONTENTS:
:   67        0136  1 !
:   68        0137  1
:   69        0138  1 FORWARD ROUTINE
:   70        0139  1
:   71        0140  1     LIB$INT_OVER;                      ! Enable/disable integer overflow
:   72        0141  1
:   73        0142  1 !
:   74        0143  1 ! MACROS:
:   75        0144  1 !
:   76        0145  1
:   77        0146  1 !
:   78        0147  1 ! EQUATED SYMBOLS:
:   79        0148  1 !
:   80        0149  1
:   81        0150  1 !
:   82        0151  1 ! OWN STORAGE:
:   83        0152  1 !
:   84        0153  1
:   85        0154  1 !
:   86        0155  1 ! EXTERNAL REFERENCES:
:   87        0156  1 !
:   88        0157  1
```

```
    90      0158   1  GLOBAL ROUTINE LIB$INT_OVER (     ! Enable/disable integer overflow
    91      0159   1          NEW_SETTING)              ! Adr. of longword containing new setting
    92      0160   1          =                        ! Value is old setting
    93      0161   1
    94      0162      !++
    95      0163   1   ! FUNCTIONAL DESCRIPTION:
    96      0164   1   !
    97      0165   1   !       LIB$INT_OVER enables or disables integer overflow
    98      0166   1   !       for the calling procedure activation.  The previous setting
    99      0167   1   !       of the enable is returned as a value.
   100      0168   1   !
   101      0169   1   ! FORMAL PARAMETERS:
   102      0170   1   !
   103      0171   1   !       new_setting.rlu.r          Adr. of longword containing new enable setting.
   104      0172   1   !                                  Bit 0 = 1 is enable, bit 0 = 0 is disable.
   105      0173   1   !
   106      0174   1   ! IMPLICIT INPUTS:
   107      0175   1   !
   108      0176   1   !       NONE
   109      0177   1   !
   110      0178   1   ! IMPLICIT OUTPUTS:
   111      0179   1   !
   112      0180   1   !       NONE
   113      0181   1   !
   114      0182   1   ! ROUTINE VALUE:
   115      0183   1   !
   116      0184   1   !       OLD_SETTING.wlu.v                  previous contents of SRM$W_PSW[PSW$V_IV]
   117      0185   1   !                                          in the callers frame.
   118      0186   1   !
   119      0187   1   ! COMPLETION CODES:
   120      0188   1   !
   121      0189   1   !       NONE
   122      0190   1   !
   123      0191   1   ! SIDE EFFECTS:
   124      0192   1   !
   125      0193   1   !       The callers stack frame will be modified.
   126      0194   1   !
   127      0195   1   !--
   128      0196   1
   129      0197   2      BEGIN
   130      0198   2
   131      0199   2      LOCAL
   132      0200   2          OLD_SETTING;                      ! store the old SETTING of integer overflow enable
   133      0201   2      BUILTIN
   134      0202   2          FP;
   135      0203   2      MAP
   136      0204   2          NEW_SETTING: REF VECTOR[1, LONG],        ! Scalar call-by-reference
   137      0205   2          FP: REF BLOCK[,BYTE];
   138      0206   2      OLD_SETTING = .FP[SF$V_IV];
   139      0207   2      FP[SF$V_IV] = .NEW_SETTING[0];
   140      0208   2      RETURN .OLD_SETTING;
   141      0209   1      END;                              !End of LIB$INT_OVER


                                                    .TITLE   LIB$INT_OVER Enable/disable integer overflow tr
                                                                                                          aps
                                                    .IDENT   \1-002\
```

```
                                                          .PSECT   _LIB$CODE,NOWRT,  SHR,  PIC,2
                                          0000 00000      .ENTRY   LIB$INT_OVER, Save nothing          ; 0158
        50        04  AE          01   05 EF 00002        EXTZV    #5, #1, 4(FP), OLD_SETTING          ; 0206
    04  AE            01          05   04 BC F0 00008     INSV     @NEW_SETTING, #5, #1, 4(FP)         ; 0207
                                          04 0000F        RET                                          ; 0209

; Routine Size:  16 bytes,    Routine Base:  _LIB$CODE + 0000
```

```
: 143          0210  1 END                                    !End of module
: 144          0211  0 ELUDOM
```

:   PSECT SUMMARY
:
:   Name   Bytes   Attributes
:
:   _LIB$CODE   16 NOVEC,NOWRT, RD , EXE, SHR, LCL, REL, CON, PIC,ALIGN(2)

:   Library Statistics
:
:   -------- Symbols --------   Pages   Processing
:   File   Total   Loaded   Percent   Mapped   Time
:
:   _255DUA28:[SYSLIB]STARLET.L32;1   9776   1   0   581   00:00.7
:   _255DUA28:[LIBRTL.OBJ]RTLLIB.L32;1   36   0   0   8   00:00.0

:   COMMAND QUALIFIERS
:
:   BLISS/CHECK=(FIELD,INITIAL,OPTIMIZE)/NOTRACE/LIS=LIS$:LIBINTOVE/OBJ=OBJ$:LIBINTOVE MSRC$:LIBINTOVE/UPDATE=(ENH$:LIBINTOVE
:   )
:
: Size: 16 code + 0 data bytes
: Run Time: 00:02.0
: Elapsed Time: 00:14.8
: Lines/CPU Min: 6267
: Lexemes/CPU-Min: 10158
: Memory Used: 30 pages
: Compilation Complete